

Abstract

America's roadways are in serious need of repair. According to the American Society of Civil Engineers (ASCE) one third of the nation's roads are in poor or mediocre condition [1]. In the latest report prepared by ASCE, these conditions were estimated to cost American drivers \$5.8 billion and as many as 13,800 fatalities a year from 1999 to 2001 [1]. A considerable amount of the damage is due to the premature deterioration of concrete resulting from the corrosion of steel reinforcement. Fabricating this reinforcement using a material and/or shape conducive to transferring wheel loads will help to aid in minimizing roadway damage.